



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
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NOTICE OF ACCEPTANCE (NOA)

Versico, Inc.
1555 Ritner Highway PO Box 1289
Carlisle, PA 17013

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Versico VersiWeld Single Ply TPO Roof Systems over Poured Gypsum Decks

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This revises NOA# 10-0422.03 and consists of pages 1 through 11.
The submitted documentation was reviewed by Alex Tigera.



NOA No: 11-0921.09
Expiration Date: 08/31/13
Approval Date: 01/26/12
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ROOFING SYSTEM APPROVAL

<u>Category:</u>	Roofing
<u>Sub-Category:</u>	Single Ply
<u>Material:</u>	TPO
<u>Deck Type:</u>	Poured Gypsum
<u>Maximum Design Pressure</u>	-295 psf
<u>Fire Classification:</u>	See General Limitation #1

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product Name</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
VersiWeld, VersiWeld Plus	various	TAS 131	Reinforced white or colored TPO membrane.
VersiWeld VersiFleece	various	TAS 131	Reinforced white or colored TPO membrane.
VersiFleece AC TPO 120 mil	various	TAS 131	Reinforced white or colored TPO membrane.
VersiFleece AC TPO 135 mil	various	TAS 131	Reinforced white or colored TPO membrane.
VersiWeld EF/ES	various	TAS 131	Reinforced white or colored FR TPO membrane.
Fast 100 Adhesive	various	TAS 110	Spray Polyurethane Adhesive
Fast 100-P Adhesive	various	TAS 110	Spray Polyurethane Adhesive
Fast 102 Adhesive	various	TAS 110	Spray Polyurethane Adhesive
Versico One Step	various	TAS 110	Polyurethane Adhesive
Versico Olybond 500 BA	various	TAS 110	Polyurethane Adhesive
Versico Foamular Durapink Insulation	various	TAS 110	Extruded Polystyrene for white or black mechanically fastened roof systems.
VersiWeld Bonding Adhesive	various	TAS 110	Solvent-based bonding adhesive.
Aqua Base 120 Bonding Adhesive	Various	TAS 110	Water-based bonding adhesive
CP-5067	Various	TAS 110	Asphalt-modified polyether adhesive



APPROVED INSULATIONS:

TABLE 2

<u>Product Name</u>	<u>Product Description</u>	<u>Manufacturer (With Current NOA)</u>
Hy Therm, Pyrox, White Line	Isocyanurate Insulation	Apache Products Co.
ACFoam I, ACFoam II	Isocyanurate Insulation	Atlas Roofing Corp.
ACFoam Composite	Isocyanurate Insulation with perlite facer	Atlas Roofing Corp.
Polyisocyanurate MP, MP-H, MP-N, MP-W	Polyisocyanurate roof insulation.	Versico, Inc.
Versico Recovery Board	High Density Wood Fiberboard.	Versico, Inc.
Versico EPS/Fiberboard	High Density Wood Fiberboard bonded to EPS.	Versico, Inc.
Carlisle Foamular 150, 250, 400, 404, 600	Extruded Polystyrene insulation	Carlisle Syntec, Inc.
Carlisle Foamular Durapink-FA Insulation	Extruded Polystyrene for white or black adhered system.	Carlisle Syntec, Inc.
Carlisle Foamular Durapink Insulation	Extruded Polystyrene for white or black mechanically fastened roof systems.	Carlisle Syntec, Inc.
Carlisle Foamular ½” Board	Extruded Polystyrene recovery board.	Carlisle Syntec, Inc.
Versico EPS Insulation	Expanded Polystyrene.	Versico, Inc.
Styrofoam	Extruded polystyrene insulation	Dow
Dens Deck	Silicon treated gypsum	G-P Products
Ultra/M-II II Iso/glas	Polyisocyanurate foam insulation	Homasote Co.
ENRGY 2, ENERGY PSI-25	Isocyanurate Insulation	Johns Manville
Fesco Foam	Isocyanurate Insulation with perlite facer	Johns Manville
Wood Fiberboard	Regular wood fiber insulation	Generic
High Density Wood Fiberboard	High Density Wood Fiber insulation board.	Generic
Perlite Insulation Board	Perlite Insulation	Generic
Type X Gypsum	Gypsum Wallboard	Generic
XPS	Extruded polystyrene	Generic
Structodeck	High Density Wood Fiber insulation board.	Masonite
Fiber Base	Asphalt coated wood fiber insulation	Temple Inland Forest Products Corp.



APPROVED FASTENERS:

TABLE 3

<u>Fastener Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Dimensions</u>	<u>Manufacturer (With Current NOA)</u>
1.	Versico Lightweight	Insulation fastener for cementitious and gypsum decks	Various	Versico, Inc.
2.	Versico Lightweight Plates	Metal plates used for membrane securement with Versico Lightweight fasteners.	2" dia	Versico, Inc.
3.	Versico Lightweight Insulation Plates	Metal Plates used for insulation attachment	3" dia	Versico, Inc.
4.	Versico Polymer Seam Plates	Plastic plates used for membrane securement with fasteners.	2" dia	Versico, Inc.
5.	Lite-Deck Fasteners	Insulation fastener for cementitious and gypsum decks	Various	Olympic Mfg. Group
6.	NTB Magnum	Insulation fastener for cementitious and gypsum decks	Various	Olympic Mfg. Group
7.	GTL Fastener	Insulation fastener for cementitious and gypsum decks with a 3" round head plate.	Various	Olympic Mfg. Group
8.	Strap Toggle	Insulation fastener for steel, wood and gypsum decks.	Various	Olympic Mfg. Group
9.	Iron-Lok Toggle	Insulation fastener for steel, wood and gypsum decks.	Various	Olympic Mfg. Group
10.	Lite-Deck Plate	3" round Galvalume AZ55 stress plate	3" round	Olympic Mfg. Group
11.	NTB Plate	3" round Galvalume AZ55 stress plate	3" round	Olympic Mfg. Group
12.	NTB Metal Barbed Stress Plate	2" round Galvalume AZ55 stress plate	2" round	Olympic Mfg. Group
13.	NTB Plastic Plate	Plastic plates for NTB 2" head fasteners.	3" round	Olympic Mfg. Group
14.	Olympic Standard	3" round Galvalume AZ55 stress plate	3" round	Olympic Mfg. Group
15.	Olympic G-2	3.5" round Galvalume AZ55 stress plate	3.5" round	Olympic Mfg. Group
16.	Olympic	Plastic plates for fasteners.	3" round	Olympic Mfg. Group



APPROVED FASTENERS:

TABLE 3

<u>Fastener Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Dimensions</u>	<u>Manufacturer (With Current NOA)</u>
17.	Powerlite	Insulation fastener for cementitious and gypsum decks	Various	Powers Fasteners Inc.
18.	Powerlite	3" round Galvalume AZ55 stress plate	3" round	Powers Fasteners Inc.

EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Description</u>	<u>Date</u>
Architectural Testing Inc.	ATI-37490.01	Membrane Brittleness Testing	7/7/00
Factory Mutual Research Corp.	3Z9A1.AM	Wind Uplift and Fire Classification	10/15/97
Factory Mutual Research Corp.	Approval Guide Excerpt	Wind Uplift and Fire Classifications Listings	5/00
Factory Mutual Research Corp.	3011220	Class 4470	08/16/01
Factory Mutual Research Corp.	3012879	Class 4470	04/04/03
Factory Mutual Research Corp.	3024994	Class 4470	02/28/06
Factory Mutual Research Corp.	3014692	Class 4470	08/05/03
Factory Mutual Research Corp.	3018579	Class 4470	10/09/03
Celotex Corporation Testing Services	520257	Membrane Physical Property Testing	4/19/00
SGS U.S. Testing Company Incorporated	131248-R2	Membrane Ozone Resistance Testing	1/6/00



APPROVED ASSEMBLIES

Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 6I: Poured Gypsum, Insulated
Deck Description: Poured Gypsum Concrete
System Type C(1): All layers of insulation simultaneously fastened; membrane fully adhered.

All General and System Limitations apply.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Extruded Polystyrene, Energy-Lok, ACFoam-I, Minimum 1” thick	N/A	N/A
Perlite Minimum ¾” thick	N/A	N/A

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

<u>Base or Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Ultra/M-II Iso/glas Minimum 1.2” thick	1, 6, 7, 8, 9, 10 or 18	1:2 ft ²
AC FOAM II, ACFoam Composite, Rhoflex Composite, Fesco Foam, Polyisocyanurate MP-W Minimum 1.5” thick	1, 6, 7, 8, 9, 10 or 18	1:2 ft. ²
ENRGY-2, PSI-25, WHITELINE, PYROX, AP, Polyisocyanurate MP, MP-H, MP-N Minimum 1.4” thick	1, 6, 7, 8, 9, 10 or 18	1:2 ft ²
Versico Recovery Board, Sturdi Top, Fiber Base Minimum ½” thick	1, 6, 7, 8, 9, 10 or 18	1:2 ft ²
High Density Fiberboard Minimum ¾” thick	1, 6, 7, 8, 9, 10 or 18	1:2 ft ²
Wood Fiber Minimum 1” thick	1, 6, 7, 8, 9, 10 or 18	1:2 ft ²



Top Insulation Layer

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

Required over the insulations listed in Base Layer or optional over any of the insulations listed as Base or Top Layer:

Versico Recovery Board (for use over all insulation. types) Fiber Base (for use over polyisocyanurate, gypsum or perlite) Minimum ½” thick	1, 6, 7, 8, 9, 10 or 18	1:2 ft²
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Note: Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Vapor Retarders: (Optional) Any UL or FMRC approved vapor retarder applied to the roof deck or over a base layer of insulation.

Barrier: None.

Membrane #1: VersiWeld, VersiWeld EF/ES, Reinforced, 45 or 60 mil membrane or VersiWeld Plus, 72 or 80 mil membrane fully adhered to the insulation using VersiWeld Bonding Adhesive applied to the substrate at a rate of 1 gal/60 ft.² or Aqua Base 120 Bonding Adhesive applied to the substrate at a rate of 1 gal/60 ft.²

Membrane #2: VersiWeld VersiFleece 100 or 115 mil membrane fully adhered to the insulation using Aqua Base 120 Bonding Adhesive applied to the substrate at a rate of 1 gal/120 ft.²

Membrane #3: VersiFleece AC TPO 120 mil or VersiFleece AC TPO 135 mil membrane adhered to the insulation in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-25 lbs./sq. or CP-5067 applied to the substrate at a rate of 1 gal/67 ft.²

Maximum Design Pressure: -45 psf (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 6I: Poured Gypsum, Insulated
Deck Description: Poured Gypsum Concrete
System Type C(2): One or more layers of insulation adhered with Versico Olybond 500 BA, Versico One Step or Versico Fast Adhesive; membrane fully adhered.

All General and System Limitations apply.

Note: All layers shall be adhered to the deck in Versico OlyBond 500BA at a rate of 1 gal/sq, or FAST Adhesive at a rate of 1 gal/sq or Versico One Step at a rate of 1/3 gal/sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment. See Maximum Design Pressures below for the pressures allowed with each adhesive.

<u>Base or Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Polyisocyanurate MP-W Minimum 1.5” thick	N/A	N/A
Polyisocyanurate MP, MP-H, MP-N Minimum 1.4” thick	N/A	N/A
Versico Recovery Board Minimum 1/2” thick	N/A	N/A

<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Required over the insulations listed in Base Layer or optional over any of the insulations listed as Base or Top Layer:		
Versico Recovery Board (for use over all insulation. types) Minimum 1/2” thick	N/A	N/A
Dens Deck, Dens Deck Prime Minimum 1/4” thick	N/A	N/A

Note: Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.



Vapor Retarders: (Optional) Any UL or FMRC approved vapor retarder applied to the roof deck or over a base layer of insulation.

Barrier: None.

Membrane: VersiWeld, VersiWeld EF/ES, Reinforced, 45 or 60 mil membrane or VersiWeld Plus, 72 or 80 mil membrane fully adhered to the insulation using VersiWeld Bonding Adhesive applied to the substrate at a rate of 1 gal/60 ft.² or Aqua Base 120 Bonding Adhesive applied to the substrate at a rate of 1 gal/60 ft.²
Or
VersiWeld VersiFleece 100 or 115 mil membrane fully adhered to the insulation using FAST Adhesive applied to the substrate at a rate of 1 gal/sq. or Aqua Base 120 Bonding Adhesive applied to the substrate at a rate of 1 gal/120 ft.²
Or
VersiFleece AC TPO 120 mil or VersiFleece AC TPO 135 mil membrane adhered to the insulation in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-25 lbs./sq. or CP-5067 applied to the substrate at a rate of 1 gal/67 ft.²

Maximum Design Pressure:
-45 psf (See General Limitation #9) when insulation adhered with FAST Adhesive
-112.5 psf (See General Limitation #9) when Polyisocyanurate insulation adhered with Versico Olybond 500BA Adhesive
-135 psf (See General Limitation #9) when Polyisocyanurate insulation adhered with Versico Olybond 500BA Adhesive
-202.5 psf (See General Limitation #9) when insulation adhered with FAST Adhesive



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced

Deck Type 6: Poured Gypsum, Non-Insulated

Deck Description: Poured Gypsum Concrete

System Type F(1): Membrane fully adhered.

All General and System Limitations apply.

Vapor Retarders: None.

Barrier: None.

Membrane: VersiWeld VersiFleece FleeceBACK 100 or 115 mil membrane fully adhered to the insulation using FAST Adhesive applied to the substrate at a rate of 1 gal/sq.

Maximum Design Pressure: -295 psf (See General Limitation #9)



GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each sidelap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq. **Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.**
5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117 and/or RAS 137. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform with Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**
10. All membranes or packaging shall bear the imprint or identifiable marking of the manufacturer's name or logo and the following statement: "Miami-Dade County Product Control Approved" or the Miami-Dade County Product Control Seal as shown below.
11. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9B-72 of the Florida Administrative Code.

MIAMI-DADE COUNTY
APPROVED

END OF THIS ACCEPTANCE

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